

## Changing Decimals to Fractions

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To change a decimal to a fraction (or to change a mixed decimal to a mixed number), write the digits in the decimal as the numerator. Write the denominator according to the number of decimal places. Then reduce the fraction.

**EXAMPLE 1** Write 0.24 as a common fraction.

**STEP 1** Write 24 as the numerator. Since two places means hundredths, write 100 as the denominator.

$$\frac{24 \div 4}{100 \div 4} = \frac{6}{25}$$

**STEP 2** Reduce by dividing 24 and 100 by 4.

**EXAMPLE 2** Write 9.015 as a mixed number.

**STEP 1** Write 9 as the whole number and 15 as the numerator. Since three places means thousandths, write 1,000 as the denominator.

$$9 \frac{15 \div 5}{1000 \div 5} = 9 \frac{3}{200}$$

**STEP 2** Reduce by dividing 15 and 1,000 by 5.

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**Write each number as a common fraction or a mixed number and reduce.**

1.  $0.08 =$

$0.375 =$

$0.0048 =$

2.  $3.6 =$

$9.86 =$

$10.002 =$

3.  $0.085 =$

$5.08 =$

$0.0025 =$

4.  $7.2 =$

$0.15 =$

$8.16 =$

5.  $0.00324 =$

$19.0786 =$

$123.462 =$

6.  $16.00004 =$

$7.22 =$

$3.000008 =$

7.  $2,036.8 =$

$48.02 =$

$3.075 =$